

TOP SECRET

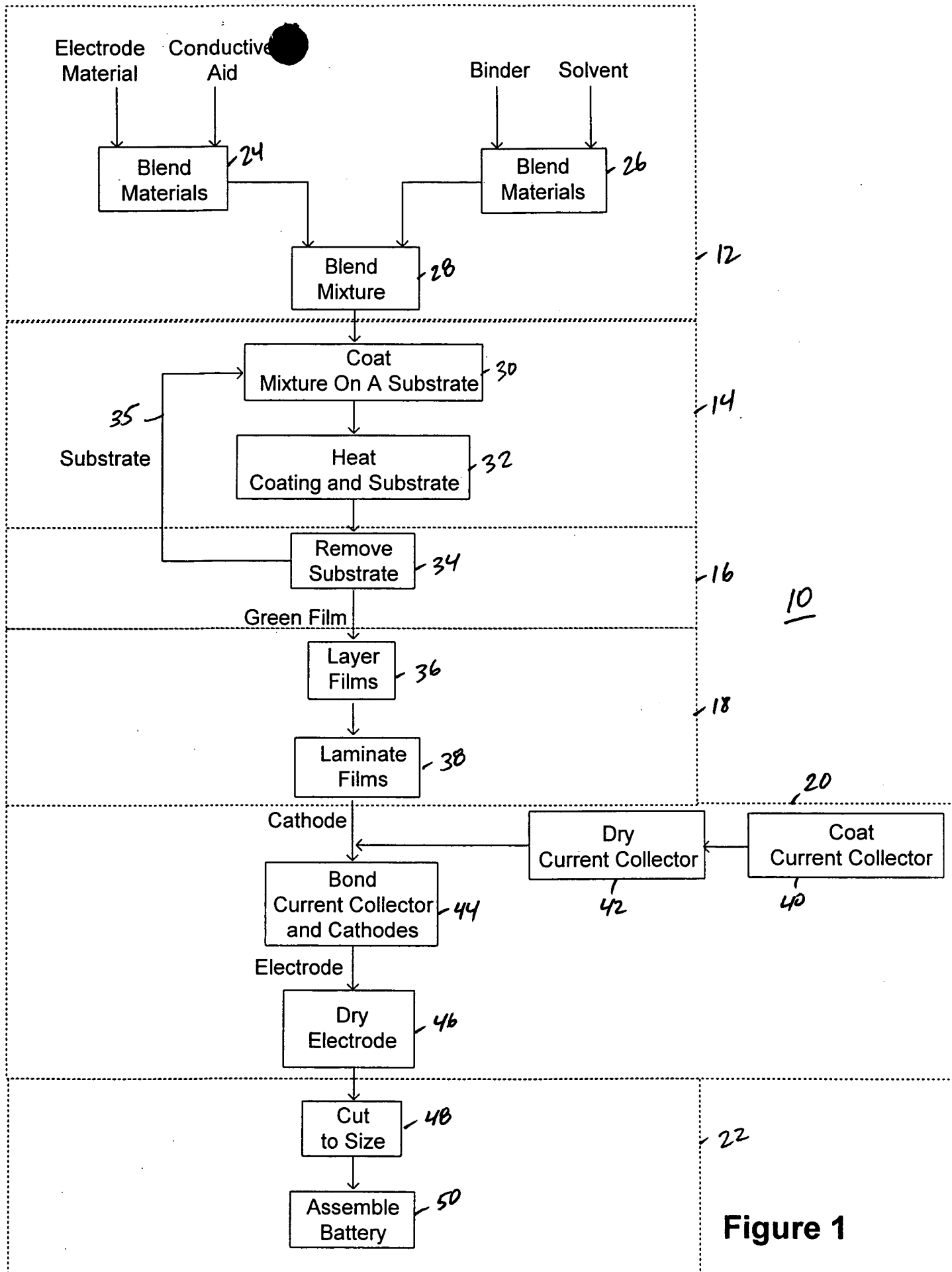


Figure 1

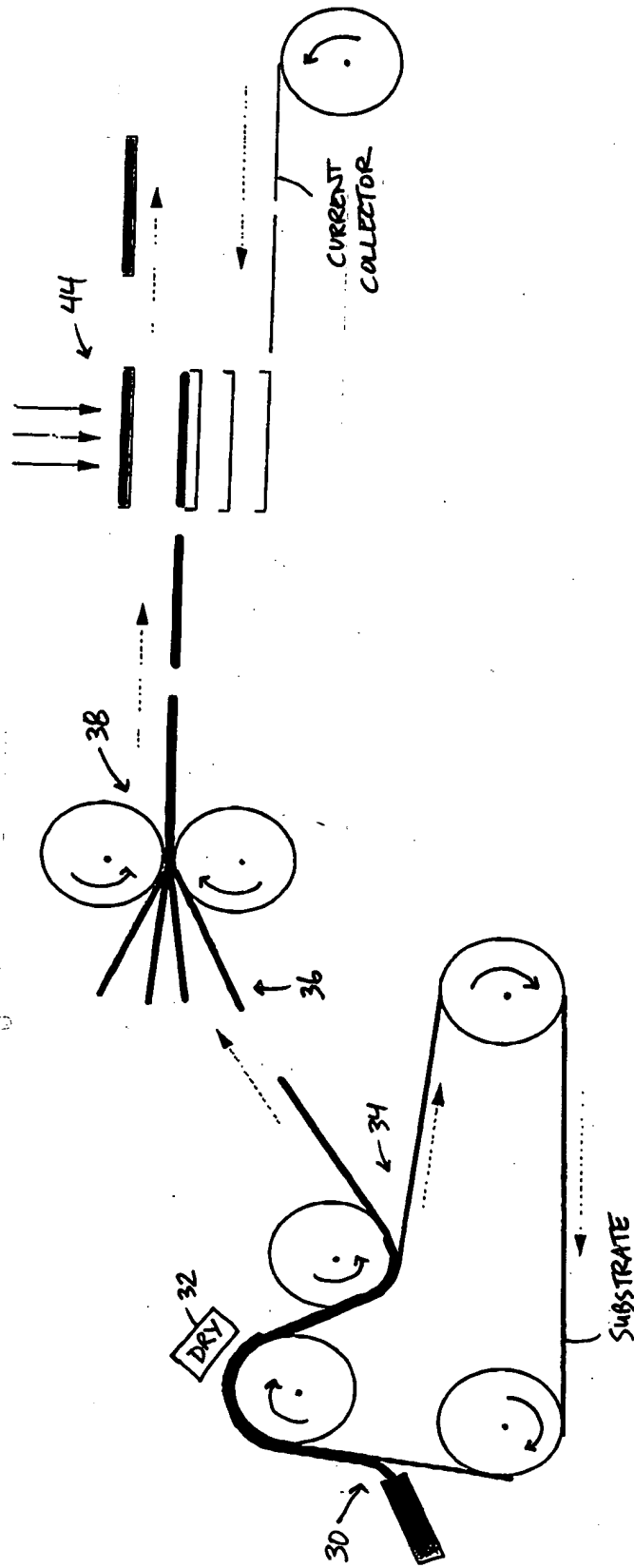


Figure 2

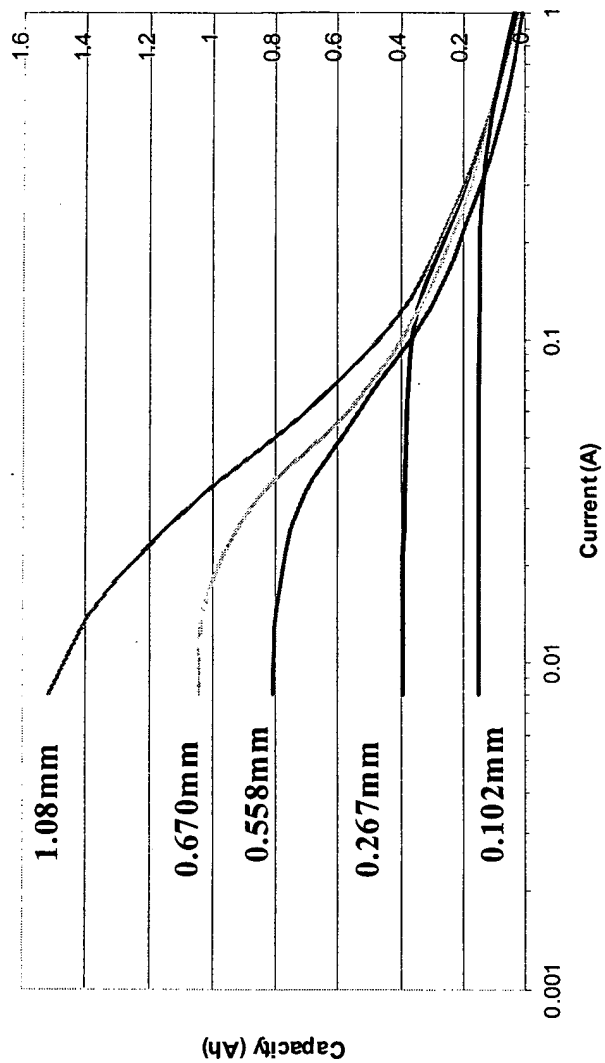
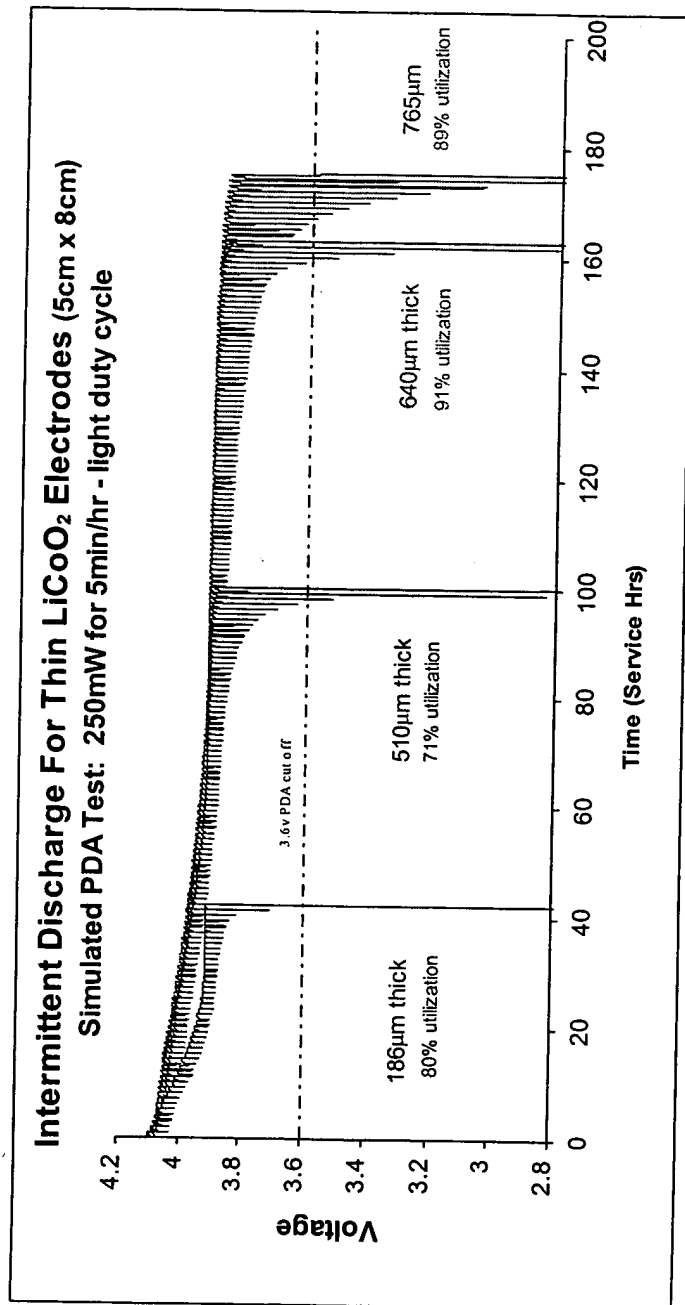


FIGURE 3

## ***PDA Performance Intermittent Drain @ 62 mA***

### ***LiCoO<sub>2</sub> system***



**FIGURE 4**

Figure 5

Cell	Binder Wt%	Cathode Thickness (mm)	Bulk Porosity (%)	Charge			Discharge
				Current Density (mA/cm <sup>2</sup> )	Charge Capacity (mAh/g)	Service Hours to 1.8 V @250 mW PDA	
A1	4.0	0.810	27.4	0.40	125	203	Energy Density to 1.8 V Cutoff (mAh/g) [efficiency]
B1	4.9	0.806	25.8	0.38	132	203	116 [93%]
B2	4.9	0.812	25.9	0.38	121	206	113 [86%]
C1	5.8	0.796	25.0	0.39	123	190	120 [99%]
C2	5.8	0.789	24.9	0.38	110	182	114 [93%]
							106 [96%]

Figure 6

Cell	Electrode Thickness (mm)	Current Density (mA/cm <sup>2</sup> )	Charge Capacity (mAh/g)	Bulk Porosity (%)	Service Hours @250 mW PDA	mAh/r to Cutoff
1	0.173	0.37	135	21.1	42	108
2	0.181	0.37	134	24.3	40	101
3	0.483	0.41	130	21.0	100	94
4	0.599	0.37	132	21.6	177	120
5	0.734	0.39	122	23.1	175	112

Figure 7

Cell	Cathode Thickness (mm)	Current (mA)	Power (mW)
A	.102	240	912
B	0.267	160	608
C	0.558	40	152
D	0.667	35	133
E	0.700	25	95
F	1.08	21	80